ABSTRACT OF THE DISCLOSURE

Disclosed is a method for calculating a movement value of an optical mouse and an optical mouse using it. The method comprises the steps of: adjusting a reference frame update speed based on a movement speed of the optical mouse and updating the reference frame, calculating a first movement value, wherein the step of calculating the first movement value sets a reference area in the updated reference frame, and finds a correlation between a current input frame and the reference area of the reference frame to calculate the movement value, and resetting a reference area, wherein the step of resetting a reference area sets a new reference frame to which the reference area of the reference frame is moved by considering the calculated movement value according to the adjusted reference frame update speed. With the optical mouse according to the present invention, when calculating the movement value of the optical mouse the reference area is reset based on the movement of the optical mouse, thereby sensing the movement of small angles by increasing region of movement value.